

ABSTRACT OF THE DISCLOSURE

A method and corresponding apparatus for determining the centroid (V_c) of a waveform signal being sampled at a set of parameter values (V_i , $i=1, \dots, n$) yielding a corresponding set of sampled amplitudes (A_i , $i=1, \dots, n$), each parameter value and corresponding amplitude forming a sampled point (V_i, A_i), the method including the steps of: selecting an amplitude at which to create an interpolated point; interpolating a first parameter value corresponding to the amplitude selected in the step of selecting an amplitude; and performing a centroid calculation using only the sampled points with an amplitude greater than a predetermined threshold. The waveform is sometimes sampled in the presence of background noise, and the method sometimes also includes: estimating the background (B_i) for each value in the set of parameter values at which sampling is performed; and reducing the amplitude (A_i) of each sampled amplitude by the background (B_i) so estimated.